

Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-14-012;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engine and emission control system produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2015	FH3XL1.13F2V	1.131	Diesel	3000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Indirect Diesel Injection, Engine Control Module (excluding engine code 8502-21)			Tractor and Industrial Equipment	

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for non-methane hydrocarbon (NMHC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			NMHC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
8≤KW<19	Tier 4 Final	STD	N/A	N/A	7.5	6.6	0.40	20	15	50
		CERT	--	--	5.6	3.0	0.28	6	5	6

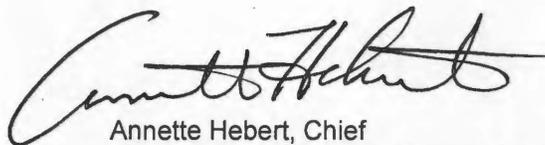
BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

This Executive Order hereby supersedes Executive Order U-R-026-0412 dated August 20, 2014.

Executed at El Monte, California on this 16 day of December 2015.



Annette Hebert, Chief
 Emissions Compliance, Automotive Regulations and Science Division

Engine Model Summary Template

U-R-026-0400-1

12/2/2015

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
FH3XL1.13F2V	EJ20/2200	403F-11	19.7@2200	21.9	7.9	64.0@2000	21.8	7.2	IFI, ECM
FH3XL1.13F2V	EJ20/2200	C1.1	19.7@2200	21.9	7.9	64.0@2000	21.8	7.2	IFI, ECM
FH3XL1.13F2V	S318-28	S773L-F	24.7@2800	22.9	10.6	65.0@2400	21.9	8.7	IFI, ECM
FH3XL1.13F2V	S318-30	S773L-F	24.5@3000	20.2	10.0	65.0@2400	21.9	8.7	IFI, ECM
FH3XL1.13F2V	EJ25/2800	403F-11	24.7@2800	22.9	10.6	65.0@2400	21.9	8.7	IFI, ECM
FH3XL1.13F2V	EJ25/2800	C1.1	24.7@2800	22.9	10.6	65.0@2400	21.9	8.7	IFI, ECM
FH3XL1.13F2V	EJ19/2200	403F-11	19.3@2200	21.9	7.9	64.0@2000	21.8	7.2	IFI, ECM
FH3XL1.13F2V	EJ19/2200	C1.1	19.3@2200	21.9	7.9	64.0@2000	21.8	7.2	IFI, ECM
FH3XL1.13F2V	8502-21*	S773L-F	20.9@3000	18.8	9.3	52.0@2400	18.6	7.3	IFI

* new engine code